



PCT

RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

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3 <110> APPLICANT: FUSO Pharmaceutical Industries, Ltd.
 4 Hiroyuki, Mizuguchi
 5 Takao, Hayakawa
 6 Fuminori, Sakurai
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 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/516,504
 C--> 12 <141> CURRENT FILING DATE: 2004-12-02
 12 <150> PRIOR APPLICATION NUMBER: JP 2002-164015
 13 <151> PRIOR FILING DATE: 2002-06-05
 15 <160> NUMBER OF SEQ ID NOS: 1
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Does Not Comply
 Corrected Diskette Needed
 (p5.13-14)

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224 cgtatcatgg cgttgacgac tcgcaacccc gaagccttta gacagcaacc ccaggccaac 12000
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226 gtcctggcca tcgtgaacgc gttggtggag aacaaagcta ttcgtccaga tgaggccgga 12120
227 ctggtataca acgctctctt agaacgcgtg gctcgctaca acagtagcaa tgtgcaaacc 12180
228 aatttggacc gtatgataac agatgtacgc gaagccgtgt ctcagcgcca aaggttccag 12240
229 cgtgatgcca acctgggttc gctgggtggc ttaaagtctt tcttgagtac tcagcctgct 12300
230 aatgtgccgc gtggtcaaca ggattatact aactttttaa gtgctttgag actgatggta 12360
231 tcagaagtac ctcagagcga agtgtatcag tccggtcctg attacttctt tcagactagc 12420
232 agacagggct tgcagacggt aaatctgagc caagctttta aaaaccttaa aggtttgtgg 12480
233 ggagtgcagc ccccggtagg agaaagagca accgtgtcta gcttggttaac tccgaactcc 12540
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235 tatttgggtt acctactaaa cctgtatcgc gaagccatag ggcaaagtca ggtggacgag 12660
236 cagacctatc aagaaattac ccaagtcagt cgcgctttgg gacaggaaga cactggcagt 12720
237 ttggaagcca ctctgaactt cttgcttacc aatcggtctc aaaagatccc tctcaatat 12780
238 gctcttactg cggaggagga gaggatcctt agatatgtgc agcagagcgt gggattgttt 12840
239 ctgatgcaag agggggcaac tccgactgca gcaactggaca tgacagcgcg aaatatggag 12900
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241 gctgccgcta tgaactctga ttatttcacc aatgccatct taaacccgca ctgggtgccc 13020
242 ccacctggtt tctacacggg cgaatatgac atgcccagac ctaatgacgg atttctgtgg 13080

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RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

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245 gagcccgagt ctgcaagtcc ttttcctagt ctaccctttt ctctacacag tgtacgtagc 13260
246 agcgaagtgg gtagaataag tcgcccaggt ttaatgggcg aagaggagta cctaaacgat 13320
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268 gatgtagatg cctatgagaa cagtaagaaa gaacaaaaag ccaaataga agctgctaca 14640
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288 cttagggcgg ccagacgtgc agcttcgggc gccagcgccg gcagggtccc caggcaagca 15840
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RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

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294 gatgatgggc tggcggagtt tgtgcgcgag tttgccccac ggcgacgcgt gcaatggcgt 16200
295 gggcgcaaaag ttgcacatgt gttgagacct ggaacttcgg tggcttttac acccggcgag 16260
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297 gagcaggcgg ctgaccgatt aggcgagttt gcttatggca agcgtagtag aataacttcc 16380
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299 gtcactttgc agcaagtgtt acccgtaact ccgcgaacag gtgttaaacy cgaagggtgaa 16500
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302 gtagcgcctg gtctgggggt acaaactgta gacattaaga tccccactga aagtatggaa 16680
303 gtgcaaaactg aaccgcgcaa gcctactgcc acctccactg aagtgcaaac ggatccatgg 16740
304 atgcccacgc ctattacaac tgacgcgcgc ggtccactc gaagatcccg acgaaagtac 16800
305 ggtccagcaa gtctgttgat gcccaattat gttgtacacc catctattat tctactcct 16860
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333 caatacatat tcttacaaag tgcggtacac cctggccgtg ggcgacaaca gagtgtgga 18540
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335 ctattctggg acggcttaca actctctggc tctaaaggc gctccaaatg catctcaatg 18660
336 gattgcaaaa ggcgtaccaa ctgcagcagc cgcaggcaat ggtgaagaag aacatgaaac 18720
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338 taaaaaagag ggcttaccaa taggtttgga gatttcagct gaaaacgaat ctaaacccat 18840
339 ctatgcagat aaactttatc agccagaacc tcaagtggga gatgaaactt ggactgacct 18900
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RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

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343 atcgcaaaga acaaacttca gtcctaaaat tgtcatgtat gcagaaaatg taggtttgga 19140
344 aacgccagac actcatgtag tgtacaaacc tggacagaa gacacaagtt ccgaagctaa 19200
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350 ttttccactg gacggcatag gtgttccaac aaccagttac aaatcaatag ttccaaatgg 19560
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353 caatgtggct ctgtatctcc cagactcgta caaatacacc ccgccaatg tcaactcttc 19740
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388 atgactcatg taacaacgt gttcaataaa catcacttta tttttttaca tgtatcaagg 21840
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RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

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433 ctctccccgg gatttggaag agcgtcgcaa gcttatgatg gccgtggtgc tgggtaccgt 24540
434 agaactagag tgtctccgac gtttctttac cgattcagaa acctgcgca aactcgaaga 24600
435 gaatctgcac tacactttta gacacggctt tgtgcggcag gcatgcaaga tatctaactg 24660
436 ggaactcacc aacctgggtt cctacatggg tattctgcat gagaatcgcc taggacaaag 24720
437 cgtgctgcac agcaccctta agggggaagc ccgccgtgat tacatccgag attgtgtcta 24780
438 tctctacctg tgccacacgt ggcaaacggc catgggtgta tggcagcaat gtttagaaga 24840

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RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

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439 acagaacttg aaagagcttg acaagctctt acagaaatct ctttaagggttc tgtgggacagg 24900
440 gttcgacgag cgcaccgtcg cttccgacct ggcagacctc atcttcccag agcgtctcag 24960
441 ggttactttg cgaaacggat tgccctgactt tatgagccag agcatgctta acaattttcg 25020
442 ctctttcatc ctggaacgct ccggtatcct gcccgccacc tgctgcgcac tgccctccga 25080
443 ctttgtgcct ctcacctacc gcgagtgcct cccgccccta tggagtcaact gctacctgtt 25140
444 ccgtctggcc aactatctct cctaccactc ggatgtgatc gaggatgtga gcggagacgg 25200
445 cttgctggag tgccactgcc gctgcaatct gtgcacgccc caccggtccc tagcttgcaa 25260
446 ccccgagttg atgagcgaaa ccagataat aggcaccttt gaattgcaag gcccagcag 25320
447 ccaaggcgat ggggtcttctc ctgggcaaag tttaaaactg accccgggac tgtggacctc 25380
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451 gggggtctac cttgaccccc agaccggcga ggaactcaac acaagggttc ctcaggatgt 25620
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453 aagattggga cagtcaggca gaggaggcgg aggaggacag tctggaggac agtctggagg 25740
454 aagacagttt ggaggaggaa aacgaggagg cagaggaggt ggaagaagta accgccgaca 25800
455 aacagttatc ctcggtcgcg gagacaagca acagcgctac catctccgct ccgagtcgag 25860
456 gaaccggcg gcgtcccagc agtagatggg acgagaccgg acgcttcccg aaccaacca 25920
457 gcgttccaa gaccggaag aaggatcgcc agggatacaa gtccctggcg gggcataaga 25980
458 atgcatcat ctccgtcttg catgagtgcg ggggcaacat atccttcacg cggcgctact 26040
459 tgctattcca ccatggggtg aactttccgc gcaatgtttt gcattactac cgtcacctcc 26100
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464 aaccgatctc tgcgttcgct caccagaagt tgtttgtatc acaagagcga agatcaactt 26400
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471 aagtcgctc cccaccactg tattacttcc tcgagacgcc caggccgaag tccaaatgac 26820
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473 tataaaacgc ctgatgatca gaggccgagg tatccagctc aacgacgagt cggtagctc 26940
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480 ctccccagg atcaccctca aggtccggcc caggagtgcc ggattactat cgaaggcaaa 27360
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485 tgtttaacttc acctttccta ctacaaaact agaagctcaa cgactacacc gcttttccag 27660
486 aagcattttc cctactaata ctactttcaa aaccggagggt gagctccacg gtctccctac 27720
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RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

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490 tctgccaaatt acgatccatg tctagacttt gacccagaaa actgcacact tacttttgca 27960
491 cccgacacaa gccgcatctg tggagttctt attaagtgcg gatgggaatg cagggtccgtt 28020
492 gaaattacac acaataacaa aacctggaac aataccttat ccaccacatg ggagccagga 28080
493 gttcccgagt ggtacactgt ctctgtccga ggtcctgacg gttccatccg cattagtaac 28140
494 aacactttca ttttttctga aatgtgcgat ctggccatgt tcatgagcaa acagtattct 28200
495 ctatggcctc ctagcaagga caacatcgta acgttctcca ttgcttattg cttgtgcgct 28260
496 tgccttctta ctgctttact gtgcgtatgc atacacctgc ttgtaaccac tcgcatcaaa 28320
497 aacgccaata acaaagaaaa aatgccttaa cctctttctg tttacagaca tggcttctct 28380
498 tacatctctc atatttgtca gcattgtcac tgccgctcac ggacaaacag tcgtctctat 28440
499 cccactagga cataattaca ctctcatagg acccccaatc acttcagagg tcatctggac 28500
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501 aacttgcaac atacaaaatc ttacattgat taatgttagc aaagtttaca gcggttacta 28620
502 ttatggttat gacagataca gtagtcaata tagaaattac ttggttcgtg ttaccaggtt 28680
503 gaaaaccacg aaaatgccaa atatggcaaa gattcgatcc gatgacaatt ctctagaaac 28740
504 ttttacatct cccaccacac ccgacgaaaa aaacatccca gattcaatga ttgcaattgt 28800
505 tgcagcggtg gcagtgggtga tggcactaat aataatatgc atgcttttat atgcttgcg 28860
506 ctacaaaaag tttcatccta aaaaacaaga tctcctacta aggtttaaca tttaatctct 28920
507 ttttatacag ccatggtttc cactaccaca ttccttatgc ttactagtct cgcaactctg 28980
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512 gtactgccat ctaccactcc agcaccgccg acaactactt tctctagcag cagtgtcgct 29280
513 aacaatacaa tttccaatcc aacctttgcc gcgcttttaa aacgcactgt gaataattct 29340
514 acaacttcac atacaacaat ttccacttca acaatcagca tcatcgctgc agtgacaatt 29400
515 ggaatatcta ttcttggttt taccataacc tactacgcct gctgctatag aaaagacaaa 29460
516 cataaagggtg atccattact tagatttgat atttaatttg ttcttttttt ttatttacag 29520
517 tatggtgaac accaatcatg gtacctagaa atttcttctt caccatactc atctgtgctt 29580
518 ttaatgtttg cgctactttc acagcagtag ccacagcaac ccagactgt ataggagcat 29640
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523 gcctatagta ctccaccaga acacctaga aaatgcaaat tccaacaacc gtggtcattt 29940
524 cttgcttgct atcgagaaaa atcagaaatc cccccaat taataatgat tgctggaata 30000
525 attaatataa tctgttgcac cataatttca tttttgatat accccctatt tgattttggc 30060
526 tggaatgctc ccaatgcaca tgatcatcca caagaccag aggaacacat tccccacaa 30120
527 aacatgcaac atccaatagc gctaatagat tacgaaagtg aaccacaacc ccactactc 30180
528 cctgctatta gttacttcaa cctaaccggc ggagatgact gaaacactca ccacctcaa 30240
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534 ctgctcctgc gattccatcg agtgcaacct caccctgctg aagaccctat gcggcctaag 30600
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RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

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539 ccggctcagt gactccttca accctgtcta cccctatgaa gatgaaagca cctcccaaca 30900
540 cccctttata aacccaggggt ttatttcccc aaatggcttc acacaaagcc cagacggagt 30960
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543 agcaccatt actaaaaata atcactctgt agaactatcc attggaaatg gattagaaac 31140
544 tcaaaaacaat aaactatgtg ccaaattggg aaatgggtta aaatttaaca acggtgacat 31200
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546 aattgtggaa aactaataa caaatgatgg caaacttact ttagtattag taaaaaatgg 31320
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548 cacacaaaag acagcaaaaca tccaattaag attatatttt gactcttctg gaaatctatt 31440
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RAW SEQUENCE LISTING

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:21

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

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588 agtgcagtac aagcgcagac ctccccaatt ggctccagca aaaacaagat tgggaataagc 33840
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603 cggcccttt taaccgttaa cccacagcc aatcaccaca cggcccacac tttttaaaat 34740
604 cctctaatat acatattggc accattccat ctataaggta tattattgat gatg 34794
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E--> 607

1/21

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VERIFICATION SUMMARY

DATE: 12/10/2004

PATENT APPLICATION: US/10/516,504

TIME: 14:17:22

Input Set : A:\PH-1823PCT-US(sequence).txt

Output Set: N:\CRF4\12102004\J516504.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date ✓

L:607 M:254 E: No. of Bases conflict, LENGTH:Input:21 Counted:34795 SEQ:1 ✓

L:607 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2 ✓

L:607 M:252 E: No. of Seq. differs, <211> LENGTH:Input:34794 Found:34795 SEQ:1 ✓